



SEQUENCE LISTING

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Li, Yan
Chan, C.K.
Aoki, Kei Roger

<120> Activatable Recombinant Neurotoxins

<130> 17311(B0)

<140> 09/648,692

<141> 2000-08-25

<150> 60/150,710

<151> 1999-08-25

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toxin

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Arg Glu Asn Leu Tyr Asn Arg Thr Ala Gly Glu Lys Leu Tyr Asp Asp
20 25 30
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35 40 45
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50 55 60
Asn

65

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aatcaagatt acaattgggt tatatgtgat cttaatcatg atataccaaa aaagtcatat 180
ctatggatat taaaaaatat ataaatttaa aattaggaga tgctgtatat gccaaaaatt 240
aatagtttta attataatga tcctgttaat gatagaacaa ttttatatat taaaccaggc 300
ggttgtcaag aattttataa atcattttaat attatgaaaa atatttggat aattccagag 360
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gatagtagtt attatgaccc taattattta caaagtgatg aagaaaagga tagattttta 480
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gaagaactgt caaaagctaa tccatattta gggaatgata atactccaga taatcaattc 600
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<400> 11
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37

<210> 12
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<400> 12
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<210> 13
<211> 31
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<220>
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<400> 13
cagttaatac attcattaca tggactatat g 31

<210> 14
<211> 26
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<220>
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<400> 14
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<210> 15
<211> 5
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<213> Site

<220>
<221> SITE
<222> (1)...(5)
<223> protease cleavage site

<400> 15
Asp Asp Asp Asp Lys
1 5

<210> 16
<211> 8
<212> PRT
<213> Site

<220>
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<222> (1)...(8)
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Leu Glu Val Leu Phe Gln Gly Pro
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<210> 17
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<213> Clostridium species

<220>
<221> ZN_FING
<222> (1)...(5)
<223> Xaa=any amino acid

<400> 17
His Glu Xaa Xaa His
1 5

<210> 18
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Linker

<400> 18
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<210> 19
<211> 22
<212> PRT
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<220>
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<400> 19
Met Gly Gly Ser His His His His His Gly Met Ala Ser Met Thr
1 5 10 15
Gly Gly Gln Gln Val Asp
20

<210> 20
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<212> PRT
<213> Clostridium botulinum

<400> 20
Ser Leu Thr Asp Leu Gly Gly Glu Leu Cys Ile Lys Ile Lys Asn Glu
1 5 10 15
Asp Leu Thr

<210> 21
<211> 54
<212> DNA
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<220>
<223> Linker

<400> 21
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<220>
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<222> (2)...(3)
<223> Xaa=any amino acid

<223> Protease cleavage site

<400> 22
Glu Xaa Xaa Tyr Ser Gln Ser
1 5

<210> 23
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<222> (2)...(3)
<223> Xaa=any amino acid

<221> SITE
<222> (5)...(5)
<223> Xaa=any amino acid

<223> Protease cleavage site

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<213> Artificial Sequence

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<223> Translated PCR fragment

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Met Arg Gly Ser His His His His His His Gly Ser Pro Lys Ile Asn
1 5 10 15
Ser Thr

<210> 25

<211> 5

<212> PRT

<213> Clostridium species

<220>

<221> ZN_FING

<222> (1)...(5)

<400> 25

His Glu Leu Ile His
1 5

<210> 26

<211> 5

<212> PRT

<213> Clostridium botulinum C

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<221> ZN_FING

<222> (1)...(5)

<400> 26

His Glu Leu Asn His
1 5

<210> 27

<211> 5

<212> PRT

<213> Clostridium botulinum D

<220>

<221> ZN_FING

<222> (1)...(5)

<400> 27

His Glu Leu Thr His
1 5

<210> 28

<211> 4
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)...(4)
<223> Blood coagulation factor Xa

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Ile Glu Gly Arg
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<210> 29
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<213> Artificial sequence

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Gly Glu Lys Leu Tyr Asp Asp Asp Asp Lys Asp Arg Trp Gly Ser Ser
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Arg